

AMENDMENTS TO THE SPECIFICATION

Please cancel the previously filed abstract of the disclosure and enter the new abstract of the disclosure submitted herewith in its place.

Please replace the paragraph beginning at line 14 of page 2 with the following rewritten paragraph:

-- Figure 2 is a perspective view of a ~~counter-balance-spring-cover-disk~~ spring housing of the assembly shown in Figure 1. --

Please replace the paragraph beginning at line 16 of page 2 with the following rewritten paragraph:

-- Figure 3a ~~and 3b~~ are is a perspective views view of a first side of a cable drum of the assembly shown in Figure 1; ~~and~~ --

Please insert the following paragraph after the paragraph beginning at line 16 of page 2 and before the paragraph beginning at line 18 of page 2:

-- Figure 3b is a perspective view of a second side of the cable drum of the assembly shown in Figure 1; and --

Please replace the paragraph beginning at line 3 of page 3 with the following rewritten paragraph:

-- The counter balance spring 16 is a conventional counter balance spring made of flat spring steel stock. The counter balance spring 16 extends between the drive shaft 12 and the spring housing 20 to provide a counter balancing force on drive shaft 12 to minimize winding efforts required to open and close a window. Counter balance spring 16 is wound about bearing surface

30 of the drive shaft 12. The inner end of spring 16 has a hook 32 that engages an axially aligned receiving slot 17 on drive shaft 12. The spring 16 is wound up a few turns to provide a pre-tension. The pre-tension tightens the first few inner coils around the drive shaft 12, thereby holding the spring hook 32 in place. --

Please replace the paragraph beginning at line 18 of page 3 with the following rewritten paragraph:

-- The An inner face 23 of spring housing 20 has an outer coil guide ring 40. The guide 40 is arcuate and extends between the two tabs 38. The guide 40 is spaced from the wall 41 of the housing approximately equivalent to the radial thickness of the spring 16. The outermost coil of spring 16 is inserted between guide 40 and wall 41, while the outer end of spring 16 has a hooked end 34 that is inserted into one of slots 39, 39'. This installation prevents bias of the spring 16 in the housing 20 during wind-up. This reduces hysteresis and produces a much smoother torque curve. --

Please replace the paragraph beginning at line 29 of page 3 with the following rewritten paragraph:

-- Spring housing 20 has a central aperture 43 through which drive shaft 12 extends and defines a drive axis. As shown in Fig. 1, ~~the~~ an outer surface 25 of the spring housing 20 preferably includes a ring 42 that is offset from the drive axis. --

Please replace the paragraph beginning at line 1 of page 4 with the following rewritten paragraph:

-- The drum 24, which is also shown in isolation in Fig. 3A, includes a circular groove 144 that mates with the circular ring 42 to maintain the offset alignment and defines a drum axis offset from the drive axis. The drum 24 has a central bore 26 having a series of internal teeth 27 ~~on an inner circumferential face 26~~. The outer drum surface has a helical groove 46 that ~~communicate~~

communicates with terminal pockets 47, 49 on opposite axial end faces of the drum 24. The terminal pockets 47, 49 receive drive cable end fittings in a manner well known in the art. --

Please replace the paragraph beginning at line 8 of page 4 with the following rewritten paragraph:

-- The drum 24 has a raised embossment 45 on the face opposite the groove 144. Referring back to Figure 1, the drive casing 28 is configured to receive the drum 24 and spring housing 20. The casing 28 has a circular recess 44 that receives embossment 45 of the drum 24 in a sliding relation. Recesses 51 receive tabs 38. The casing 28 has two cable outlets 53 from which the cables extend. --

Please replace the paragraph beginning at line 13 of page 4 with the following rewritten paragraph:

-- Once assembled, the drive pinion 14 drivingly engages with the internal teeth 27 of ~~inner periphery~~ the central bore 26. As shown schematically in Fig. 4, the pinion gear 14 is relatively small, preferably comprising a six-tooth involute gear, that mates with a thirteen-tooth internal gear ~~forming the inner circumferential face~~ formed by the internal teeth 27 of the central bore 26 of the drum 24. This arrangement, made possible by the aforementioned offset alignment, provides a gear reduction system (2.17:1 in the preferred embodiment). It is understood that the present invention is not limited to this specific gear reduction and it will be appreciated by those skilled in the art that other gear ratios may be utilized within the scope of the present invention. It will also be appreciated that the axial offset between the drum 24 and shaft 12 can be provided by other types of guiding mechanisms. For example, the drum 24 could have a circular rail and the spring housing 20 could have a corresponding groove. Alternatively, the casing 28 could be modified to contain the drum 24 circumferentially instead of axially (or in addition thereto) in order to maintain the offset alignment. --

Attachment: Abstract